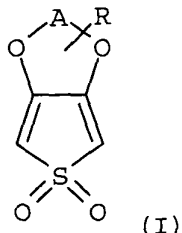


ABSTRACT

A 3,4-alkylenedioxythiophenedioxide compound represented by formula (I):

5



in which: A represents a C₁₋₅-alkylene bridge; R represents an optionally substituted C₁₋₂₄-alkyl, C₃₋₁₈-cycloalkyl, C₁₋₁₈-alkoxy or polyethylene oxide group (optionally with at least one substituent
10 selected from the group consisting of an alcohol, amide, ether, ester or sulphonate group) or an optionally substituted aryl group; a polymer comprising monomeric units represented by formula (I); an aqueous dispersion of a polymer comprising monomeric units corresponding to at least one compound according to formula (I) and
15 a polyanion; a chemical polymerization process for preparing the aqueous dispersion comprising the steps of: (i) providing a solution of a polyanion; (ii) adding a compound according to formula (I) and a thiophene or pyrrole compound to the solution provided in step (i); and (iii) adding an oxidizing or reducing system to the mixture
20 provided in step (ii); a printable paste containing the aqueous dispersion; an electroconductive layer containing the polymer; the use of the electroconductive layer in a light emitting diode; an antistatic layer containing the polymer; and an electroconductive pattern and a process for preparing the electroconductive pattern.